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APPENDIX C

Prior MESA Correspondence

APPENDIX D

Vegetative Community Inventory (including representative existing conditions photographs)



September 6, 2022

Ariadne Environmental Consulting, LLC C/O Victoria Fletcher P.O. Box 3021 Peterborough, NH 03548

Re: Vegetation Community Mapping, Pimpneymouse Farm, Chappaquiddick Island, Massachusetts

Dear Ms. Fletcher:

Introduction

Basswood Environmental LLC (Basswood) is pleased to submit this brief summary report to accompany a map of vegetation communities prepared to reflect existing conditions across an approximately 216-acre property known as Pimpneymouse Farm ("PMF"), located on the eastern side of Chappaquiddick Island, Massachusetts (Figure 1, at right). The survey was performed by Erik Lema, Principal Scientist and Owner of Basswood. Erik has an extensive background in botany and has performed numerous botanical surveys throughout New England, and the Massachusetts islands specifically.

The overall ~216-acre PMF property is comprised of a variety of native and non-native communities. These forests, shrublands, meadows, and marshes are heavily influenced by the nearby ocean as well as a long history of agriculture and forestry. The Massachusetts Natural History and Endangered Species Program ("NHESP") has identified roughly sixty percent of the overall property as having the potential for rare, threatened, and endangered species.



Figure 1: Site Location (red)

Basswood was retained to perform the vegetation community assessment to support planning efforts associated with a generational transfer of land, a major component of which involves permanent protection of most of the overall property as conservation land, along with continuation of historic uses of the property and limited potential new development.



NHESP records identified several of rare species, including seven species of moth, four birds, and one herbaceous plant, as having been identified from either this site or a site nearby. Because of the potential for the property to support suitable habitat for rare species, Basswood was contacted to provide an account of the community types present on site and general information regarding their location, structure, and composition. The purpose of this survey is to characterize existing conditions at a community-scale, rather than an exhaustive inventory of vegetative species on the overall property, and to generally assess through ground-truthing efforts whether mapped Priority Habitat, reviewed at eye level, is consistent with natural community types likely to support rare species. Please find an addendum attached consisting of a series of covertype maps, including NHESP Priority Habitat, ground-truthed vegetation community types, and photographs representative of the community types that were encountered.

Methods

The mapping effort involved desktop research of publicly available information supplemented by a field investigation (i.e., "ground-truthing").

A compilation of publicly available mapping data was used to perform the photointerpretation component of the mapping effort. Sources of these data include:

- United States Geological Survey 7.5 Minute Topographic Quadrangle maps
- Light Detection and Ranging (LiDaR) elevation data
- Aerial orthoimagery
 - Massachusetts Bureau of Geographic Information 2009 and 2012 aerial imagery
 - o 2016 Google satellite imagery (leaf-off)
- Massachusetts Department of Environmental Protection wetlands data
- Massachusetts NHESP Priority Habitat mapping data

Distinct vegetation communities were identified and general notes were taken about the structure and species composition within these community types. Representative photographs of the community types were taken throughout the survey (see addendum). This information was used to classify the various observed communities consistent with natural community descriptions as defined by NHESP (see https://www.mass.gov/service-details/natural-community-fact-sheets). In addition, NHESP Priority Habitat mapping was exported to KML for use in field-verification during the on-site survey effort.

The field component of the survey focused on the NHESP mapped Priority Habitat on site, with greater emphasis on those areas that may be subject to human activity (such as potential new development and associated tree removal, understory clearing, as well as maintenance of the grounds near the assorted outbuildings), while also seeking to characterize community types present in areas anticipated to be permanently protected. In upland areas, NHESP Priority Habitat was closely aligned with the presence of pitch pine



(*Pinus rigida*) woodlands, which are a host community for the state endangered Imperial Moth (*Eacles imperialis*). Wetland and shoreline areas were reviewed in less detail, both due to inaccessibility as well as the understanding that human activity in these areas is very limited and most of the wetland areas will become conservation land.

The field survey identified some areas where the site conditions warranted a deviation from the NHESP mapping. These areas typically fall into a vegetation community type that is characterized by a human-influenced species composition, often interspersed with native species on forested edges. This community type, identified during the survey as "Anthropogenic" communities, is not a community type identified by NHESP, but is a useful descriptor of those areas that do not occur naturally and may be varied in terms of intensity of development and maintenance. This community type is assumed to be a system that would otherwise not naturally occur on site. These communities are distinct from the NHESP-recognized "Cultural Grasslands," which include actively hayed fields.

A Juniper Geode™ GPS receiver was used to collect location data, including areas proposed to deviate from NHESP Priority Habitat maps, photograph locations of representative communities, and any other points of interest. These data were exported to ArcMap GIS and overlayed on suitable leaf-off aerial imagery, along with other relevant data identified above. A combination of field notes, photographs, and location information was used to modify any boundaries on site and generate a comprehensive covertype map (attached).

Results and Discussion

A total of 11 vegetation communities were identified on the approximately 216-acre site, ten of which are consistent with natural communities as defined by NHESP. Of these, 6 communities are wetland or aquatic, and 5 are upland/terrestrial. Table 1 summarizes the community types identified, by acreage. The wetland and coastal communities, including the coastal saltmarsh, shrub swamps, and the beach strand/maritime shrubland near the boathouse were not intensively surveyed. These communities are not proposed for any type of alteration and any impacts to associated rare species are therefore not anticipated. Alteration of the mapped boundaries of wetland communities, particularly in relation to the MassDEP wetlands data, was based on photointerpreted aerial imagery with locational data from the field survey.

The Pitch Pine – Oak Forest/Woodland was the most intensively surveyed community type on site because it most closely aligned with NHESP Priority Habitat maps. According to the NHESP natural community description of this habitat type, the vegetation structure is quite variable and often represents a continuum between a pitch pine dominated canopy to an oak (*Quercus* spp.) dominated forest, depending on the age of the forest and prevalence of understory-clearing fire. As a result, this community was subjectively subdivided into "oak dominant" and "pine dominant" subtypes for further clarity. A more detailed description of this community type is included below.



Table 1: Mapped Vegetation Communities

Wetland Communities	Acres	Photo #*
Beach Strand	0.3	33
Coastal Salt Pond Community	2.4	33
Saltmarsh/Brackish Tidal Shrubland	78.3	18, 25
Shrub Swamp	10.8	28, 35
Water	0.3	33
Wet Meadow	0.1	17
Total	92.3	

Upland Communities	Acres	
Anthropogenic	18.8	9-15, 31, 32, 37
Coastal Forest/Woodland	33.7	14, 19, 21, 24, 38
Cultural Grassland	32.9	1, 8, 17, 18, 20, 31
Maritime Shrubland	0.3	33
Pitch Pine - Oak Forest/Woodland (Oak dominant)	29.2	2-6, 16, 22
Pitch Pine - Oak Forest/Woodland (Pine dominant)	8.7	7, 27, 29
Total	123.6	_

^{*} Photo numbers correspond to map addendum

Dominant Upland Communities

Upland communities are the focus of this study due to the potential for future impacts related to land management and development. Of these communities, *Cultural Grasslands* are found throughout the northern interior of the site, in close proximity to several of the existing residences and structures. These fields are either actively hayed or otherwise maintained in a grassland state. Recent or ongoing haying activities were observed in the *Cultural Grasslands* in the north-central portion of the property during the site investigation on June 27, 2022.



Several of the Cultural Grasslands are in close proximity to the *Anthropogenic* vegetation community. An area was identified as such if it did not appear to be in active hay production but was otherwise maintained, such as a residential yard, pasture, or garden. Other areas identified as anthropogenic are less obvious according to aerial imagery due to a forested canopy but may exhibit a maintained understory. This type of anthropogenic system is especially prevalent in the central portion of the site around residential structures, including houses and various outbuildings, one of which is a greenhouse. Decades prior, the family planted numerous cultivars and non-native trees, shrubs and herbaceous plants surrounding this residence in an arboretum-type landscape. The native forest of oaks and pitch pine has been allowed to grow through this community, resulting in a mixed native/non-native community with a generally



Figure 2: Deviation from NHESP priority habitat (red line). This area is field-identified as Anthropogenic due to maintained understory and non-native species (arboretum)

maintained understory. The presence of such a high concentration of species that do not naturally occur in the area throughout the canopy and subcanopy necessarily deviates from recognized NHESP communities. Boundaries in these areas were revised to include only these areas of high non-native plant concentrations, recognizing that some non-native species are scattered throughout the surrounding areas which are otherwise naturally occurring forest types. Extensive photographic documentation was collected in these areas for clarity regarding this proposed map alteration.

Of note, one of the three cultural grasslands that are removed from residentially developed areas is located within a coastal floodplain and review of aerial photography suggests that soils in this grassland are periodically saturated, if not inundated. The rare plant documented by NHESP to have been reported in the vicinity of the property, Bristly Foxtail (Setaria parviflora) may be present in or along the margins of this open area.

Coastal Forest/Woodlands are extensive on site, and differentiated from the common Pitch Pine – Oak Forest/Woodlands by a lack of pitch pine in the overstory. These woodlands are dominated by a mixture of black oak (Quercus velutina) and white oak (Quercus alba) in the overstory with an extremely dense shrub layer of highbush blueberry (Vaccinium corymbosum), black huckleberry (Gaylussacia baccata), hillside blueberry (Vaccinium pallidum), sweet pepperbush (Clethra alnifolia), sassafras (Sassafras albidum), common greenbrier (Smilax rotundifolia), and American holly (Ilex opaca).

Pitch Pine – Oak Forest/Woodlands are also prevalent on site and closely associated with mapped NHESP Priority Habitat. This forest type was observed to be highly variable, ranging from a dominant pitch pine canopy to one dominated by black and white oak. In the oak dominated communities, signs of pitch pine decline were evident, including mortality, lack of regeneration, and low vigor due to encroachment of oaks in the canopy.



The highest quality pitch pine dominant area of this community type is located in the north-central portion of the site, where an intact pine canopy was observed. Despite this, the oak-dominant understory will continue to approach the canopy (see Photo 27) and can be expected to overtake the pitch pine in the future unless an understory clearing event occurs.

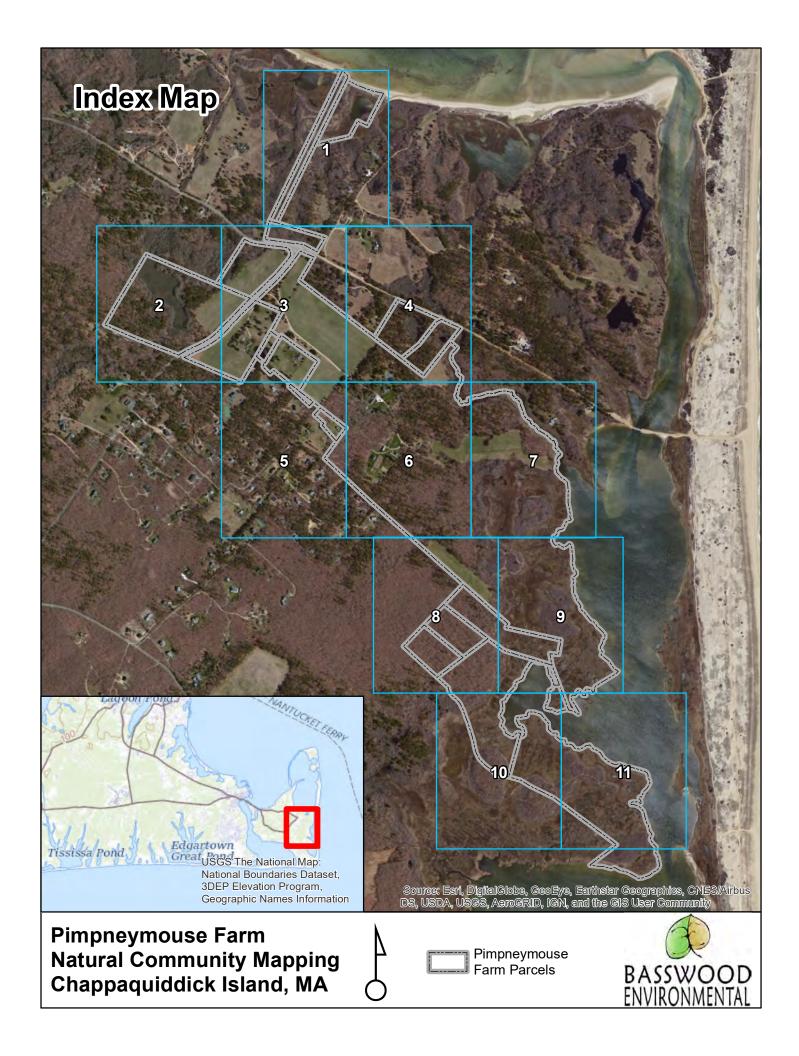
Pimpneymouse Farm is composed of several community types unique to coastal New England, much of which will be placed into conservation to be preserved. These conserved lands, along with the residences and agricultural grasslands provide for a multitude of benefits for the natural and human landscape of the region. If there is additional detail or clarity that Basswood can provide regarding this summary, please do not hesitate to contact Erik Lema at erik@basswoodenv.com.

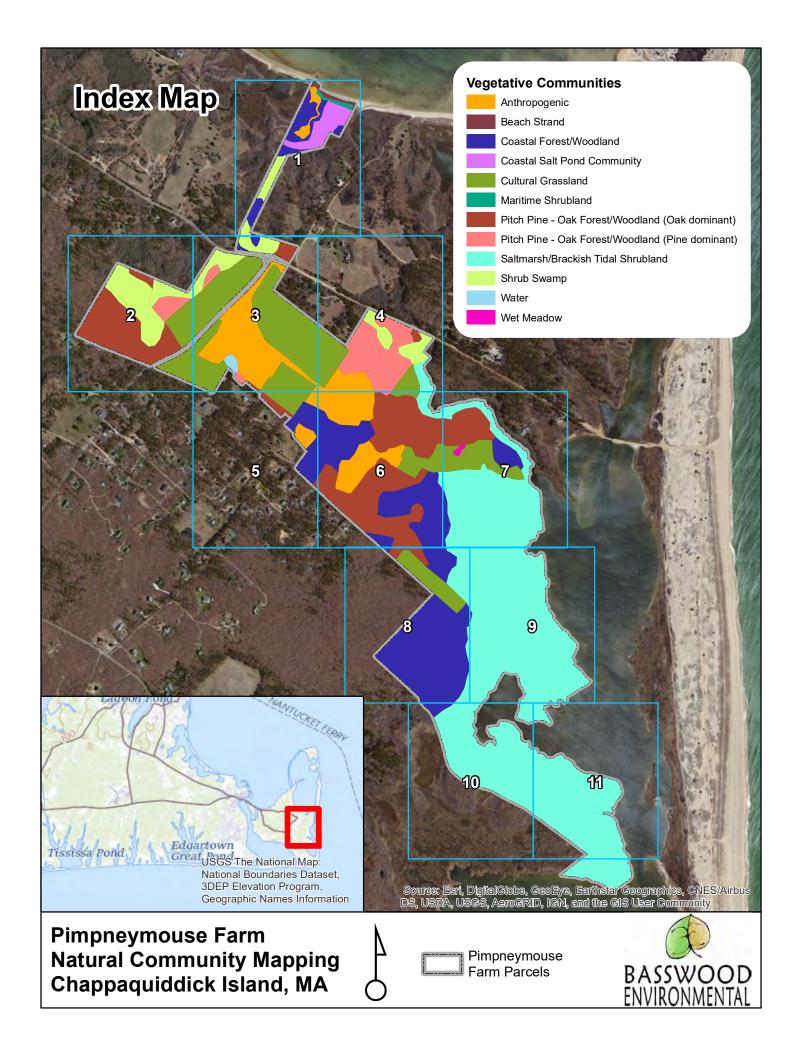
Best regards,

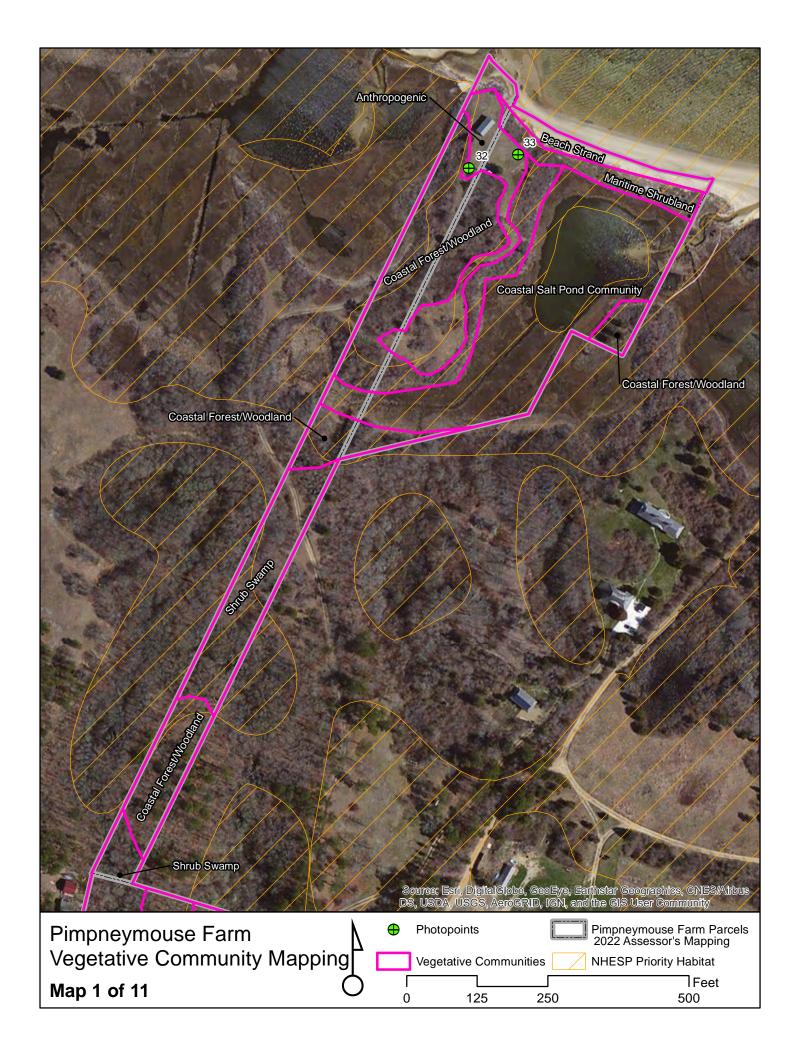
Erik Lema, Owner/Principal

Basswood Environmental LLC



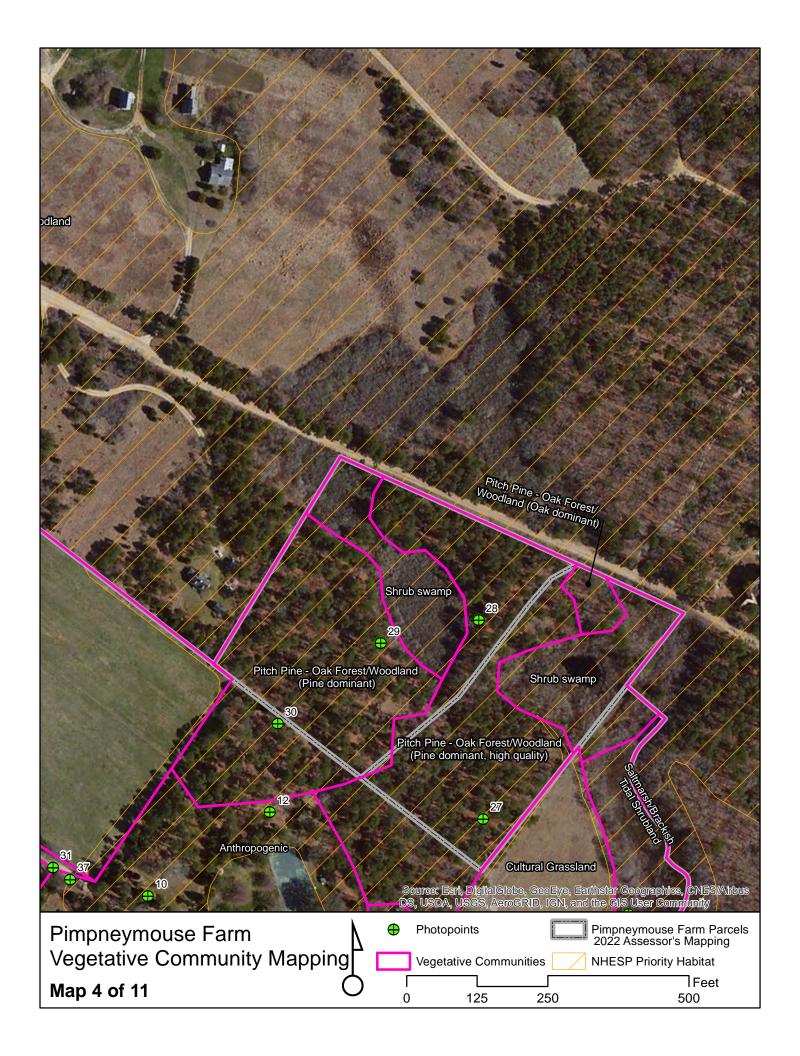




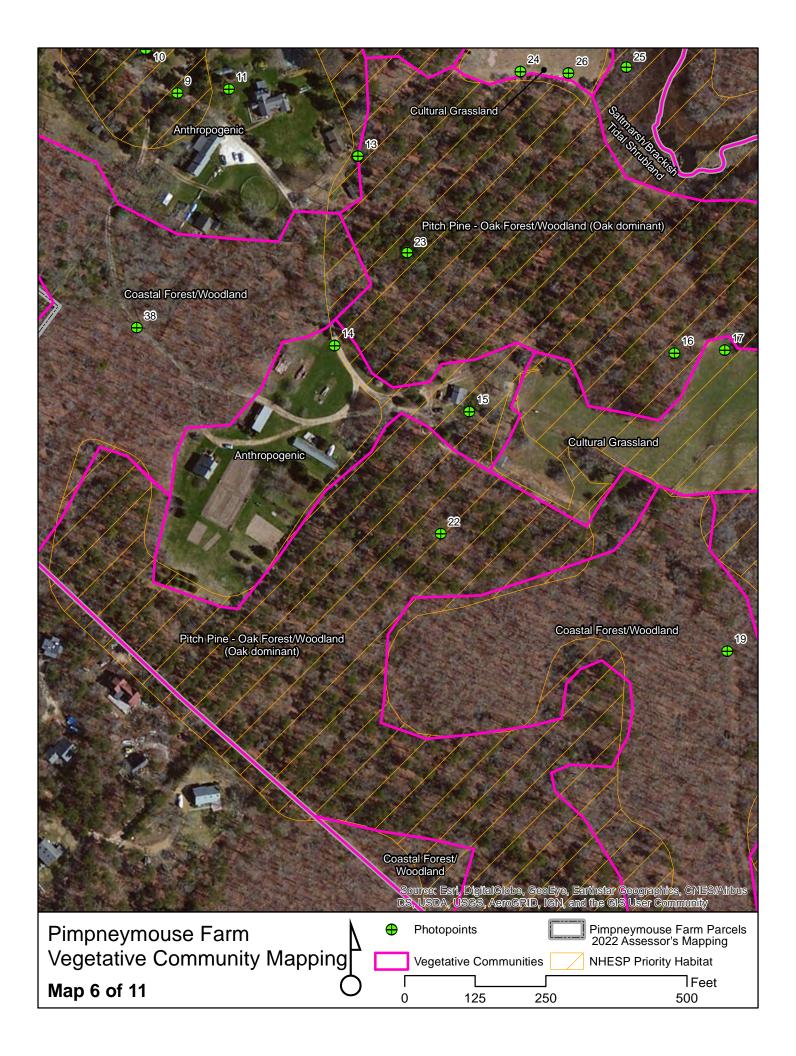


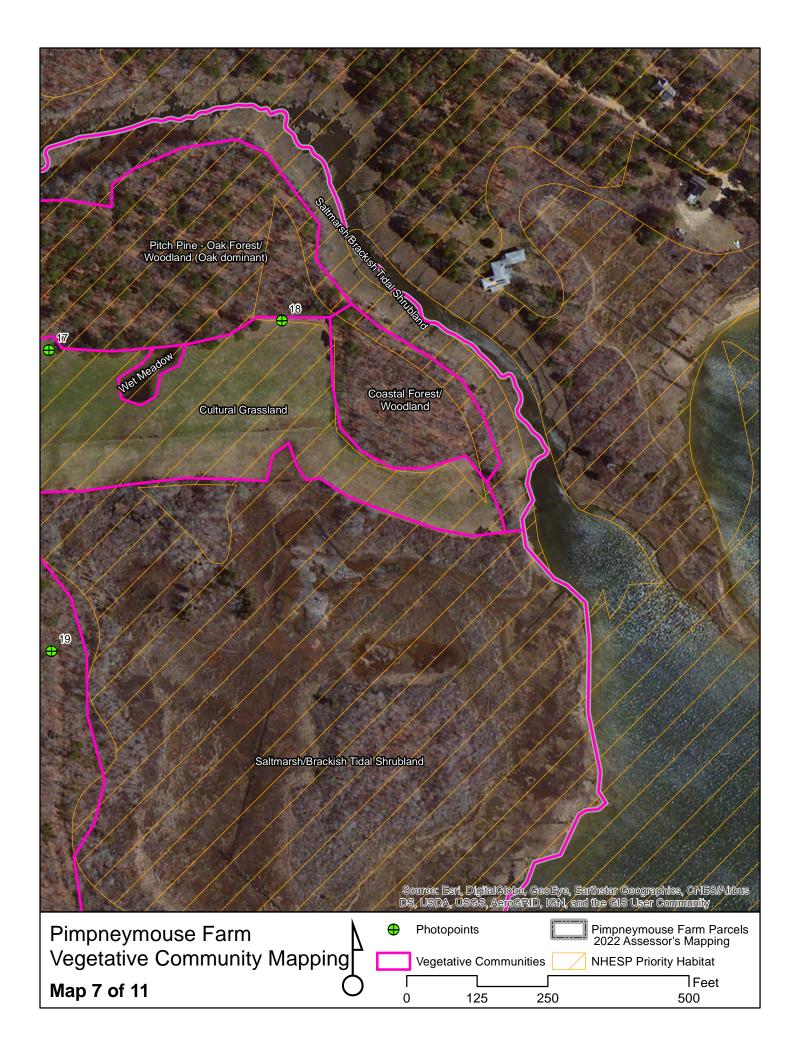


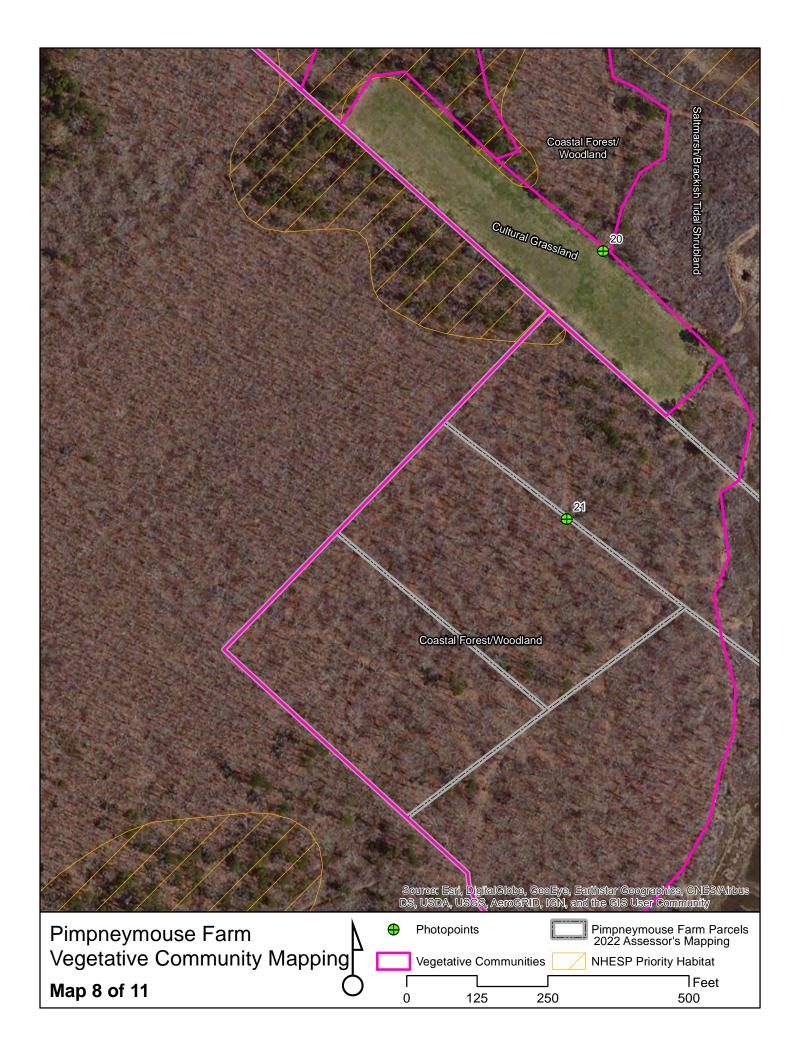


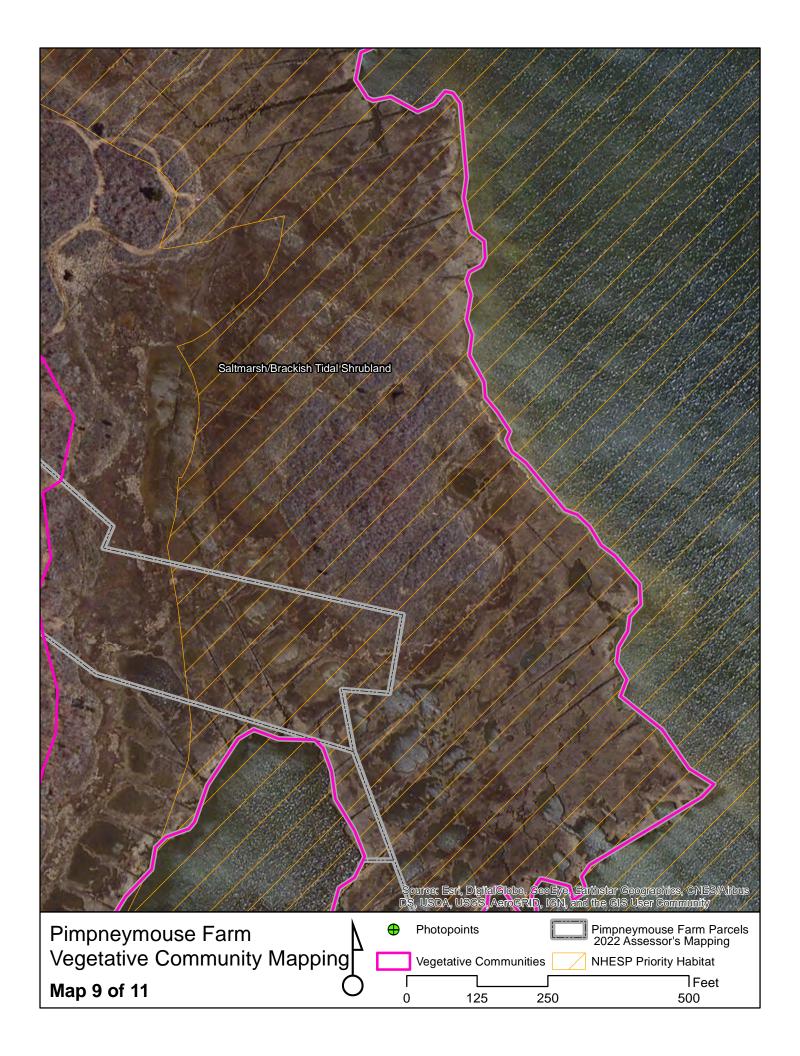


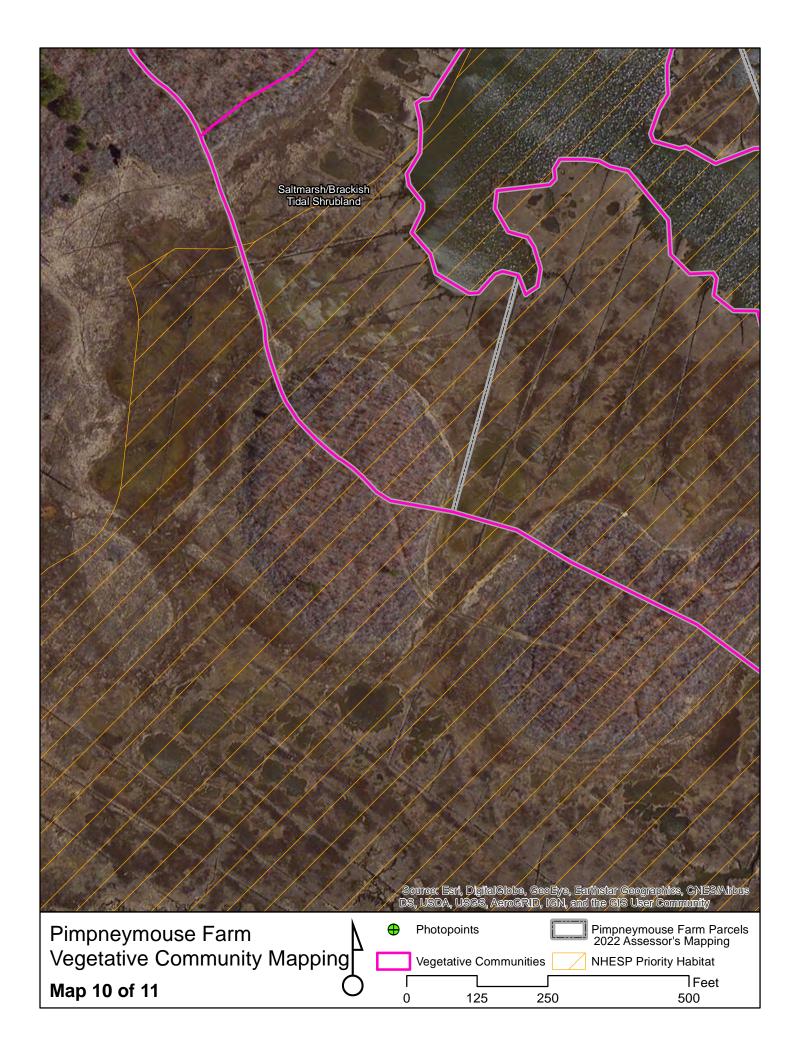


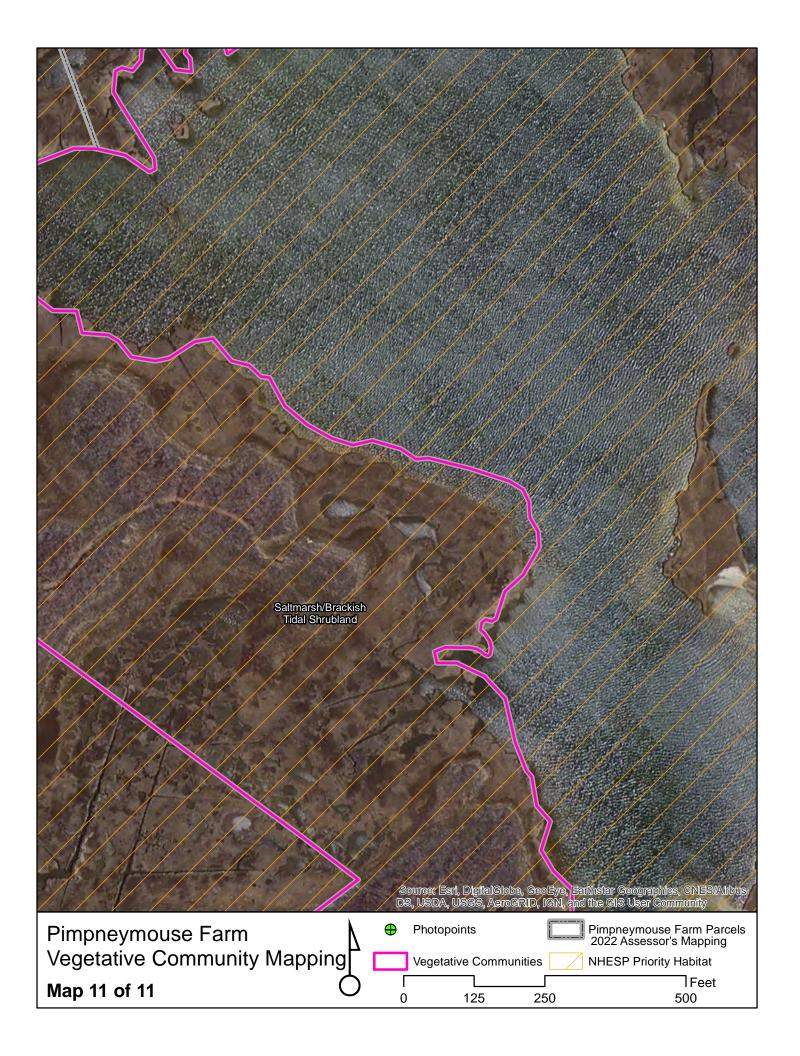


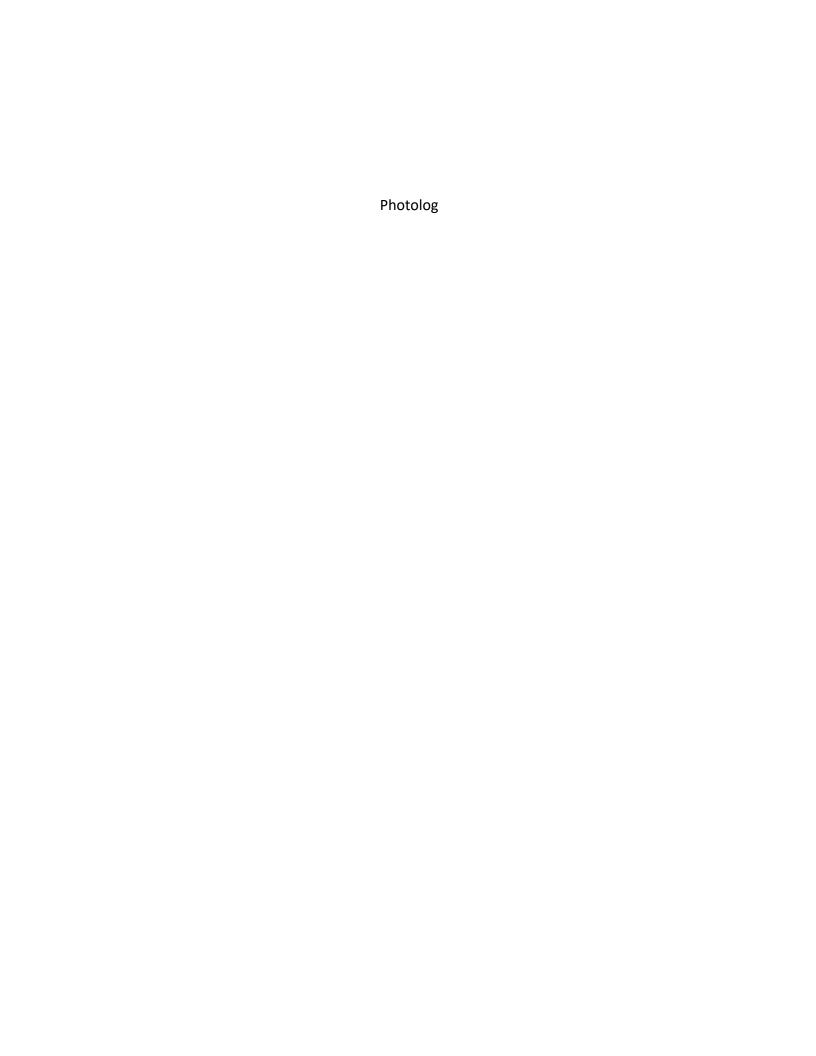














Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number: 2

Photopoint

Date: 6/22/22

Direction Photo Taken:

Northwest

Description:

View across hay field. Note end of visible pitch pine forest extending from left.



Photopoint 2

Date: 6/22/22

Direction Photo Taken:

West

Description:

Pitch Pine – Oak Forest/Woodland. Oaks encroaching on canopy.



Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number: 2

Photopoint 3

Date: 6/22/22

Direction Photo Taken:

North

Description:

Pitch pine on edge of shrub swamp.



Photopoint

4

Date: 6/22/22

Direction Photo Taken:

Southwest

Description:

Pitch pine mortality, oaks in canopy.



Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number: 2

Photopoint 5

Date: 6/22/22

Direction Photo Taken:

South

Description:

Dense oak forest, little pitch pine in area.



Photopoint 6

Date: 6/22/22

Direction Photo Taken:

Southeast

Description:

Oak forest, dominant.





Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number: 2

Photopoint

Date: 6/22/22

Direction Photo Taken:

South

Description:

Small pitch-pine dominant area in forest.



Photopoint 8

Date: 6/22/22

Direction Photo Taken:

Northwest

Description:

View across hay field into pitch-pine dominant forest, east of shrub swamp.





Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number: 6

Photopoint

9

Date: 6/22/22

Direction Photo Taken:

North

Description:

View through anthropogenic area, including small pasture and planted tree species. Several native pitch pine visible.



Photopoint

9

Date: 6/22/22

Direction Photo Taken:

South

Description:

Maintained area under trees along roadway.





Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number: 4, 6

Photopoint 10

Date: 6/22/22

Direction Photo Taken:

North

Description:

Pasture with sparse overstory, largely planted species/cultivars.



Photopoint

Date: 5/22/22

11 6/22/22

Direction Photo Taken:

South

Description:

Maintained residential area.



Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number: 4

Photopoint 12

Date: 6/22/22

Direction Photo Taken:

Northeast

Description:

Approximate edge of planted "arboretum" area.



Photopoint 12

Date: 6/22/22

Direction Photo Taken:

West

Description:

Arboretum area, planted (right side of picture, magnolia sp.) and native oaks.





Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number: 6

Photopoint 13

Date: 6/22/22

Direction Photo Taken:

East

Description:

Ornamental plantings on edge of native/natural forestland.



Photopoint 14 **Date:** 6/22/22

Direction Photo Taken:

North-Northwest

Description:

View from field/lawn to oak dominated Coastal Forest/Woodland.





Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number: 6

Photopoint 14

Date: 6/22/22

Direction Photo Taken:

North-Northeast

Description:

View from field/lawn to oak dominated Coastal Forest/Woodland (alternate view).



Photopoint

Date: 6/22/22 15

Direction Photo Taken:

Northeast

Description:

Maintained area around camp, extending to forest. Foreground trees are composed largely of cultivars.





Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number: 6

Photopoint 16

Date: 6/22/22

Direction Photo Taken:

East-Northeast

Description:

Pitch Pine – Oak Forest/Woodland, oak dominated.



Photopoint 17

Date: 6/22/22

Direction Photo Taken:

Southeast

Description:

Cultural Grassland and Wet Meadow extending to saltmarsh and tidal shrubland.





Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number: 7, 6

Photopoint 18

Date: 6/22/22

Direction Photo Taken:

South

Description:

Cultural Grassland, extends to Saltmarsh (background)



Photopoint 19 **Date:** 6/22/22

Direction Photo Taken:

Southwest

Description: Oak forest





Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number: 8

Photopoint 20

Date: 6/22/22

Direction Photo Taken:

Northwest

Description:

Grassland/hay field



Photopoint 21

Date: 6/22/22

Direction Photo Taken:

South

Description: Oak forest





Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number: 6

Photopoint 22

Date: 6/22/22

Direction Photo Taken:

Southwest

Description:

Oak dominated Pitch Pine – Oak Forest/Woodland. Pitch pine estimated to be 15-25% of canopy.



Photopoint 23

Date: 6/22/22

Direction Photo Taken:

North

Description:

Pitch pine/ white pine grove. Small area not separated as an individual community.





Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number: 6

Photopoint 24

Date: 6/22/22

Direction Photo Taken:

South

Description:

View into oak forest from field.



Photopoint 25

Date: 6/22/22

Direction Photo Taken:

East

Description:

View across tidal marsh/inlet. Note invasive Phragmites in background.





Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number: 6, 4

Photopoint 26

Date: 6/22/22

Direction Photo Taken:

N/A

Description:

Pitch pine regeneration in field. Only notable area of pitch pine regeneration encountered on site.



Photopoint 27

Date: 6/22/22

Direction Photo Taken:

North

Description:

Pitch pine dominated community. Little oak intrusion into the canopy was noted.





Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number: 4

Photopoint 28

Date: 6/22/22

Direction Photo Taken:

West

Description:

Shrub swamp.



Photopoint

Date: 29 6/22/22

Direction Photo Taken:

West

Description:

Mixed black oak – pitch pine canopy.





Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number: 4, 3

Photopoint 30

Date: 6/22/22

Direction Photo Taken:

Southwest

Description:

Path through pitch pine – oak forest, cultivars planted along trail, understory lightly maintained.



Photopoint 31

Date: 6/22/22

Direction Photo Taken:

Northwest

Description:

View along main road between fields. Active haying performed during survey (right).





Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number: 1

Photopoint 32

Date: 6/22/22

Direction Photo Taken:

North-Northeast

Description:

Boathouse on coastal dune maintained as lawn area.



Photopoint 33

Date: 6/22/22

Direction Photo Taken:

East

Description:

Maritime shrubland (foreground) and beach strand.





Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number:1, 3

Photopoint 33

Date: 6/22/22

Direction Photo Taken:

Southeast

Description:

Coastal salt pond community.



Photopoint 34

Date: 6/22/22

Direction Photo Taken:

West

Description:

Invasive bittersweet along fenceline





Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number: 3

Photopoint 35

Date: 6/22/22

Direction Photo Taken:

Southwest

Description:

View from road into overgrown and invasive plant infested shrub swamp area.



Photopoint 36 **Date:** 6/22/22

Direction Photo Taken:

Southeast

Description:

Pimpneymouse Farm sign with active haying in background of main field.





Project Name: Pimpneymouse Farm

Site Location: Chappaquiddick Island, MA

Map Number: 4, 6

Photopoint 37

Date: 6/22/22

Direction Photo Taken:

Southeast

Description:

Alternate view along main drive. Note cultivars along road with a maintained understory and native overstory.



Photopoint 38

Date: 6/22/22

Direction Photo Taken:

South

Description:

Oak forest

